

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing Of Claims:

1-21. (Canceled)

22. (New) A connecting lead for a sensor, comprising:
a sheathing tube;
at least two electrical conductors extending in the sheathing tube; and
an insulating arrangement that electrically insulates the at least two electrical conductors from one another and from the sheathing tube, wherein the insulating arrangement includes a plurality of insulating elements that are braced against one another and that contain at least two first through holes through each of which one of the at least two electrical conductors is guided.

23. (New) The connecting lead as recited in Claim 22, wherein the sensor is for determining a physical property of a measured gas.

24. (New) The connecting lead as recited in Claim 22, wherein the sensor is for determining one of an oxygen content and a temperature in an exhaust gas of an internal combustion engine.

25. (New) The connecting lead as recited in Claim 22, wherein the insulating elements are braced against one another in one element subregion and have, in another element subregion remaining in a bracing plane, a clearance from one another that increases toward an element periphery.

26. (New) The connecting lead as recited in Claim 22, wherein the insulating elements are at least partially braced with their outer periphery in the sheathing tube.

27. (New) The connecting lead as recited in Claim 25, wherein:
the insulating elements include insulating disks containing disk surfaces resting against one another, and
at least one of the disk surfaces is beveled toward a disk center.

28. (New) The connecting lead as recited in Claim 27, wherein the first through holes are in each insulating disk and are disposed in such a way that their hole axes lie on one diameter line.
29. (New) The connecting lead as recited in Claim 28, wherein:
the disk surfaces include side surfaces, and
the bevels in the side surfaces are made in such a way that on each disk surface a parallel surface extending at right angles to the hole axes and an oblique surface angled with respect thereto are present, each extending as far as the diameter line defining the hole axes of the first through holes.
30. (New) The connecting lead as recited in Claim 29, wherein the disks have on their peripheral surfaces a respective flat surface that extends parallel to the diameter line defining the hole axes of the first through holes.
31. (New) The connecting lead as recited in Claim 30, further comprising:
a round spring rod, wherein:
the disks each have second through opening,
the second through openings in the disks rest against one another and are mutually aligned, and
the round spring rod is retained in axially nondisplaceable fashion in the sheathing tube and is guided through the second through openings of the disks.
32. (New) The connecting lead as recited in Claim 31, wherein the second through openings of the disks are disposed in a region of the straight surfaces of the disks, with a radial spacing from the diameter line defining the hole axes of the first through holes.
33. (New) The connecting lead as recited in Claim 32, wherein:
each disk includes, on the disk surfaces facing away from one another, respectively, a concave indentation and a convex protrusion that are embodied in such a way that the indentations and protrusions of the disks resting against one another engage conformingly into one another.

34. (New) The connecting lead as recited in Claim 33, wherein the concave indentations and the convex protrusions respectively surround entrance openings and exit openings of the first through holes.
35. (New) The connecting lead as recited in Claim 34, wherein the two outer ones of the disks resting against one another are braced axially in the sheathing tube.
36. (New) The connecting lead as recited in Claim 35, further comprising:
a seal element by which the bracing of the outer insulating disk at the one end of the sheathing tube is accomplished, the seal element being made of electrically insulating material and pressed into the sheathing tube.
37. (New) The connecting lead as recited in Claim 36, wherein the seal element has on its periphery circumferential sealing lips, axially spaced apart from one another, that press against an inner wall of the sheathing tube.
38. (New) The connecting lead as recited in Claim 37, further comprising:
a further insulating element by which the bracing of the outer insulating disk at another end of the sheathing tube is accomplished, the further insulating element bracing against the sheathing tube.
39. (New) The connecting lead as recited in Claim 38, wherein the further insulating element includes an axial through orifice, aligned with the second through openings in the disks, through which the round spring rod is guided.
40. (New) The connecting lead as recited in Claim 39, wherein:
the other end of the sheathing tube is closed off by at least one end disk, made of electrically insulating material and resting axially against the insulating element, that exhibits a disposition of third through holes corresponding to a desired contacting pattern of the electrical conductors emerging from the sheathing tube, and
fourth through orifices are introduced into the insulating element for passage of the electrical conductors,

the fourth through orifices create a transition from the exit openings of the first through holes in the adjacent insulating disk to the entrance openings of the third through holes in the adjacent end disk.

41. (New) The connecting lead as recited in Claim 40, wherein the round spring rod is braced axially against the end disk and against the seal element.

42. (New) The connecting lead as recited in Claim 41, wherein the sheathing tube is crimped over onto the end disk.

43. (New) The connecting lead as recited in Claim 42, further comprising:
a connecting cable to which the electrical conductors are each joined by ultrasonic welding, wherein the seal element surrounds the joining points and the connecting cable is guided out of the seal element.

44. (New) The connecting lead as recited in Claim 43, wherein the insulating element and the at least one end disk have, on disk surfaces facing away from another, respectively a concave indentation and a convex protrusion having an identical geometry adapted to the indentations and protrusions on the other disks.